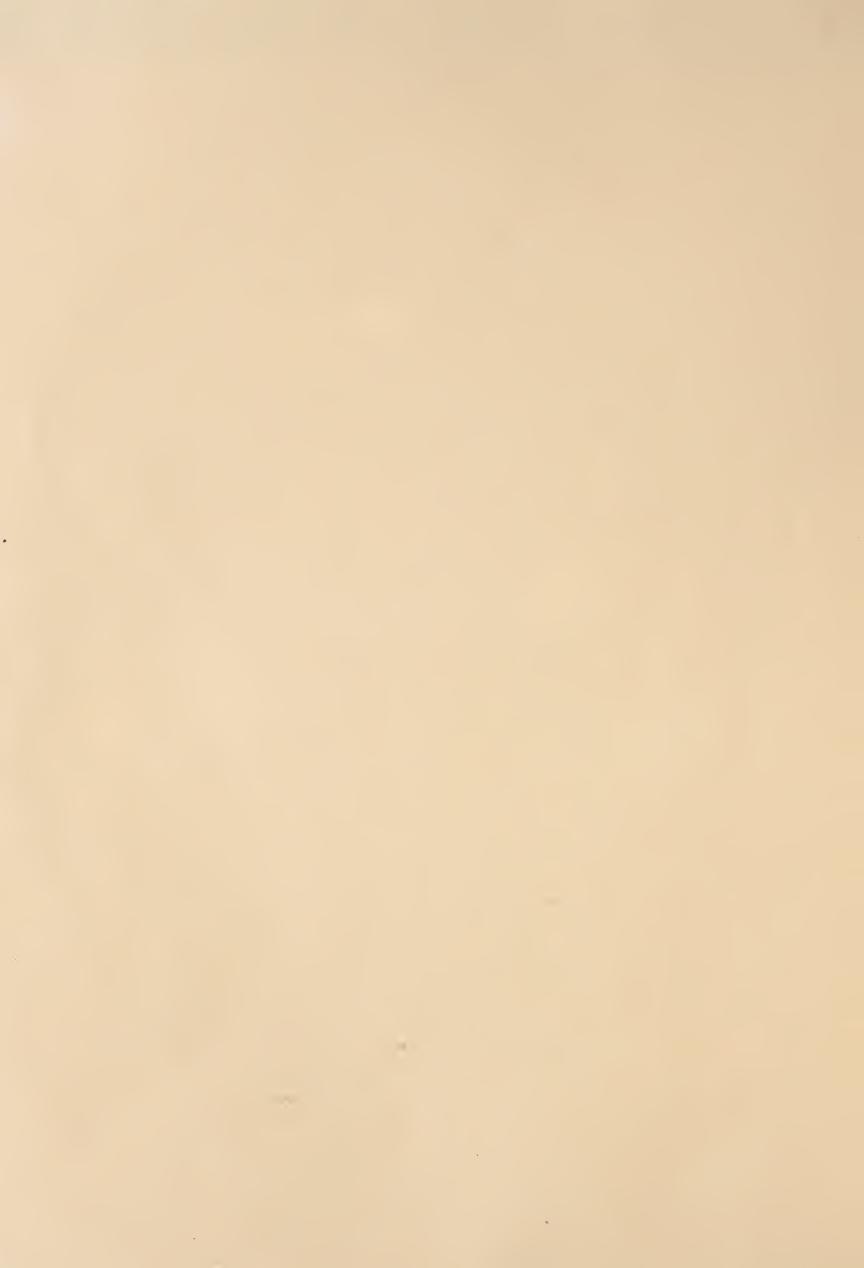
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WATER SUPPLY OUTLOOK FOR OREGON

NATIONAL AGRICULTURAL LIBRARY

Prepared by

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

OREGON STATE UNIVERSITY STATE ENGINEER of OREGON

Data included in this report were obtained by the agencies named above in cooperation with other Federal, State and private organizations.

||||||||||||||||AS OF||||||||||||| MAR. 1, 1973

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

COVER PHOTO NUMBER ORC-286-4

WATER SUPPLY OUTLOOK FOR OREGON

and FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued

MARCH 8,1973

Issued by

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Report prepared by

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HOWARD M. VANCE, Assistant Snow Survey Supervisor

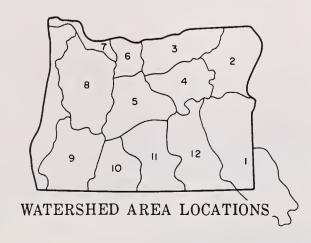
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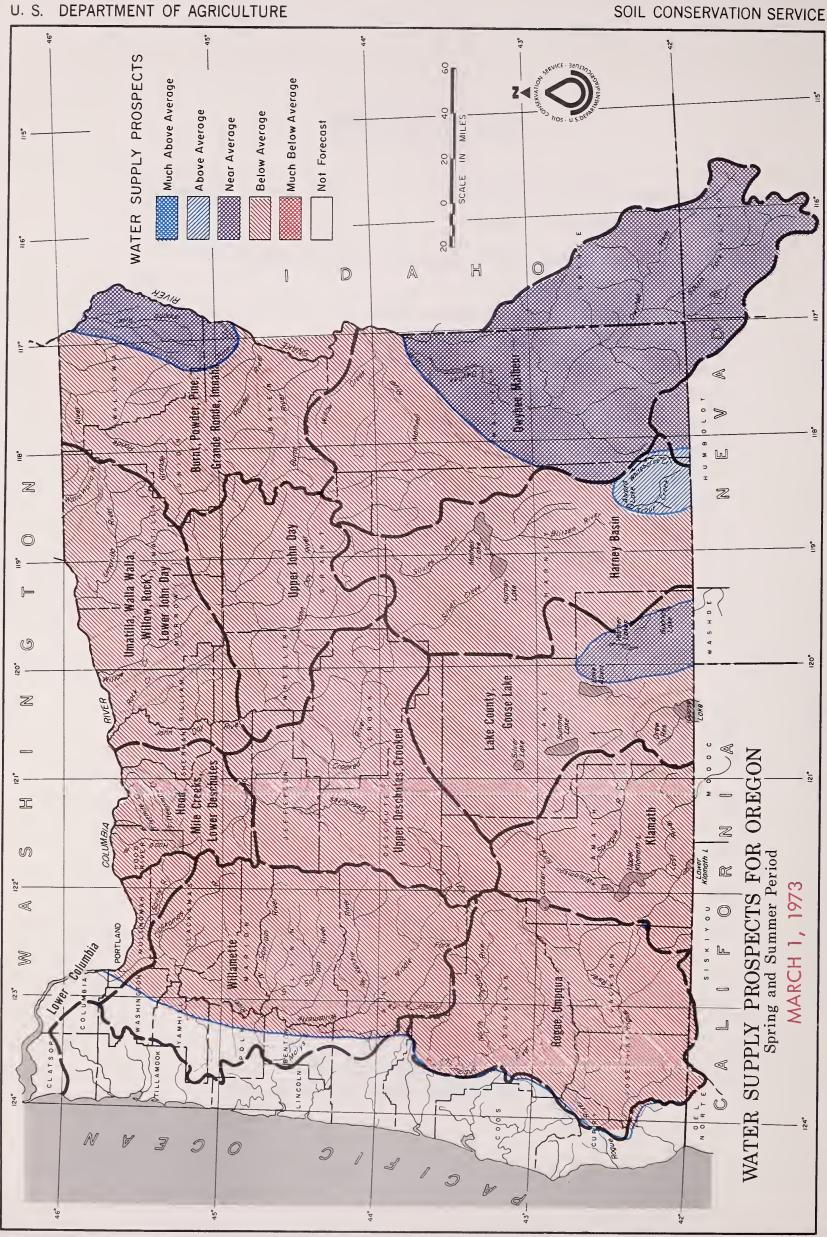


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WATER SUPPLY OUTLOOK for OREGON

MARCH 1, 1973

The current water supply outlook for next summer for Oregon water users ranges from much below average up to average. Most reservoirs will not fill. Streamflow will mostly be below to much below average.

SNOW COVER

The mountain snowpack is below to much below average for March 1, except in the Steens Mountains, Upper Owyhee in Nevada, and the Warner Mountains near Lakeview, which are all near normal. The snow cover in the Oregon Cascades compares closely to 1968 which was the poorest in recent years for snowpack accumulation.

PRECIPITATION

Precipitation in Oregon during February was only 25 to 70 percent of normal. This dry condition has persisted for several months now, and only the Owyhee Basin has had a normal amount of rainfall for the November-February period. Other areas of the state ranged from 60 to 80 percent of this same period.

SOIL MOISTURE

Due to lack of precipitation this last month and lack of snow melt, soils are generally not as wet as usual for this time of year. This condition, however, will only slightly affect the snowmelt runoff.

RESERVOIR STORAGE

Stored water supplies will save the day for many Oregon water users. Although Antelope, Bully Creek, Warmsprings, McKay, Ochoco, Cottonwood, Drews, and the Willamette reservoirs will probably not fill, the other major irrigation reservoirs are storing excellent amounts of water. Twenty-five reservoirs are storing 2,274,000 acre feet of water. This is 71 percent of full usable capacity and 117 percent of average.

STREAMFLOW

Streamflow was extremely low during February due to poor precipitation. Although streams will rise as the snowpack begins to melt in April and May, streamflow will be deficient throughout the summer. This is illustrated by the following forecasts:

	FOR ECASTED APRIL-SEPTEMBER RUNOFF
STREAM	Percent 1953-67 Average
Owyhee Net Inflow	91
Malheur near Drewsey	71
Deschutes near Benham Falls	89
Grande Ronde near La Grande	54
Willamette, Mid. Fk. near Oakridge	67
Klamath Lake net Inflow	68
Rogue near Raygold	76
Silvies near Burns	70
John Day, Mid. Fork near Ritter	70

These forecasts assume that average conditions of precipitation and temperature will occur from now until the end of the forecast period.

This report contains data furnished by the Oregon State Engineer, U.S. Geological Survey, NOAA National Weather Service, and other cooperators.





WATER SUPPLY OUTLOOK OWYHEE, MALHEUR WATERSHEDS OREGON

as of MARCH 1, 1973

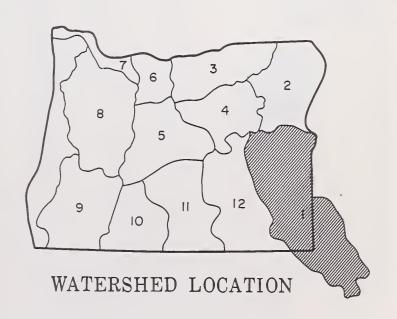
U. S. D. A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

GENERAL OUTLOOK

WATER SUPPLIES IN MALHEUR COUNTY WILL BE EXCELLENT TO AVERAGE FOR USERS WITH STORED WATER. SOME LATE-SEASON SHORTAGES MAY OCCUR WHERE WATER USERS DEPEND ON DIRECT DIVERSION FROM STREAMS IN THE NORTH END OF THE COUNTY. SNOW COVER VARIES FROM 104 PERCENT OF AVERAGE ON THE UPPER OWYHEE TO 76 PERCENT ON THE JORDAN CREEK DRAINAGE. FEBRUARY WAS VERY DRY WITH PRECIPITATION ONLY 38 PERCENT OF THE AVERAGE. THE NOVEMBER THRU FEBRUARY TOTAL IS 101 PERCENT OF AVERAGE. SOIL MOISTURE IS NEAR AVERAGE. THE APRIL-SEPTEMBER STREAM-FLOW FORECASTS RANGE FROM 91 PERCENT OF AVERAGE ON THE OWYHEE TO 69 PERCENT ON THE MALHEUR NEAR BEULAH. RESERVOIR STORAGE WAS 137 PERCENT OF AVERAGE, HOWEVER, IF PRESENT CONDITIONS CONTINUE ANTELOPE AND BULLY CREEK RESERVOIRS WILL NOT FILL. THE OWYHEE NET INFLOW WAS ONLY 54 PERCENT OF AVERAGE DURING FEBRUARY.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair. Average, Excellent" With Respect to Usual Supply.

	Flow P	eriod
STREAM or AREA	Spring Season	Late Season
Boulder Creek Bully Creek Cow Creek Jordan Creek Jordan Valley Irrig. Dist. McDermitt Creek Oregon Canyon Creek Owyhee Project Succor Creek Tenmile Creek Vale-Oregon Irrig. Dist. Warmsprings Irrig. Dist. Willow Creek (Reservoired)	Spring	Late



T.A. GEORGE AND H.M. VANCE

U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

STREAMFLOW FORECASTS		THIS YEAR	PAST RECORD		
	FORE	CAST	FORECAST	THOUSAND A	CRE FEET
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average i
Bully Creek at Warmsprings	10.0	77	March-May		11.4
Jordan Creek above Lone Tree Creek	67	79	April-July		85 m
M 11	67	79	April-Sept.		85 m
Malheur near Drewsey	65	72	March-July		93
Malheur, North Fork at Beulah d	51	71	April-Sept.		72
Maineur, North Fork at bedian	46	69	March-July		67
Owyhee Reservoir net Inflow $^{ ar{k} }$	41	69	April-Sept.		60
owyliee Reservoir net inflow	323	88	March-July	905	369
	273	91	April-Sept.	504	300

FORECAST DATE of LOW FLOW VALUES

DECEDVAID CTADAGE (Thousand Ac Et) -

TOREDAST DATE OF LOW	ILUM TAE	OLU		KEZEKANIK ZINKARE (i iivusaiiu	AU. FL.	END OF	MONTH
FORECAST POINT	Low Flow Value	Forecast Date Stream Will Recede to Low	Average Date of Low Flow	RESERVOIR	Usable Capacity		sable Stora	ige ·
·	Second/Ft.	Flow Value	Value		Capacity	This Year	Last Year	Average 1
Owyhee near Rome	1000 250	June 15 June 30	May 24 June 20	Antelope Beulah Bully Creek Owyhee Warmsprings	70.0 60.0 30.0 715.0 191.0	4.5 34.8 14.5 603.4 111.2	23.1 38.7 14.9 621.2 138.1	11.8 30.5 12.7 411.8 94.0

SOIL MOISTURE

SUMMARY of SNOW MEASUREMENTS

JOIL MOISTONE				(COMPARISON WITH PREVIOU	S YEARS)		
RIVER BASIN	Number of Stations	THIS YEAR'S as PERC Last Year	MOISTURE ENT OF: Average	RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEA WATER AS Last Year	AR'S SNOW PERCENT OF Average i
Jordan Creek Malheur River Owyhee River	1 3 4	93 97 78	98 84 84	Jordan Creek Malheur River Owyhee River	Averaged 4 5 5	40 65 60	75 85 105

⁽a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (l) Ground measurement. (m) Average for 5 or more years in base period.



WATER SUPPLY OUTLOOK BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS OREGON

as of MARCH 1, 1973

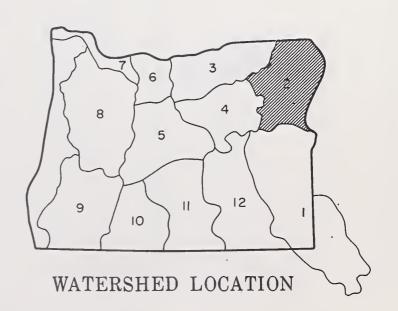
U. S. D. A. SOIL CONSERVATION SERVICE OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

GENERAL OUTLOOK

WATER SUPPLIES IN NORTHEAST OREGON WILL VARY FROM NEAR AVERAGE FOR STREAMS DRAINING THE WALLOWA MOUNTAINS TO MUCH BELOW AVERAGE ON THE GRANDE RONDE DRAINAGE. THE SNOWPACK IS ONLY 46 PERCENT OF AVERAGE ON THE UPPER GRANDE RONDE AND 68 AND 78% ON THE POWDER AND WALLOWA-IMNAHA DRAINAGES RESPECTIVELY. PRECIPITATION WAS 45 PERCENT OF AVERAGE DURING FEBRUARY AND 82 PERCENT FOR THE NOVEMBER-FEBRUARY PERIOD. SOIL MOISTURE IS NEAR AVERAGE. RESERVOIR STORAGE IS ABOVE AVERAGE. THE GRANDE RONDE AT LA GRANDE FLOWED 22 PERCENT OF AVERAGE DURING FEBRUARY.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

Flow P	eriod
Spring Season	Late Season
Average Average Average Fair Average Fair Average	
	Spring Season Average



TREAMFLOW FORECASTS		THIS YEA	PAST RECORD		
	F	ORECAST	FORECAST	THOUSAND ACRE FEET	
BASIN, STREAM and/or FORECAST POINT	Thousan Acre Fe		PERIOD	Last Year	Average
Bear near Wallowa	49	74	Annil Cont		
Burnt near Hereford d	28	65	April-Sept. March-July		66
	23	66	April-Sept.		43 35
Catherine near Union	47	74	April-Sept.		64
Eagle Creek above Skull Creek	167	99	April-July		168 m
	182	100	April-Sept.		182 ^m
Grande Ronde at La Grande	109	52	March-July		207
;	95	54	April-Sept.		175
Hurricane near Joseph	41	88	April-Sept.		47
Imnaha at Imnaha	272	88	April-Sept.		307
Lostine near Lostine	103	88	April-Sept.		125
Powder near Sumpter	34	63	April-July		55
Wallowa, East Fork near Joseph ^d	35	62	April-Sept.		56
wallowa, Last Pork Hear Joseph	11.4		March-Sept.		12.7
	10.0	90	April-Sept.		12.0
		-			
					•

Creek, Imnaha River

95

98

RESERVOIR STORAGE (1	housand	Ac. Ft.)	END OF N	MONTH	SUMMARY OF SNOW MEAS (COMPARISON WITH PREVIOUS YE		S	
RESERVOIR	Usable	Usable Storage			RIVER BASIN and/or	Number of Courses		AR'S SNOW PERCENT OF
RESERVOIR	Capacity	This Year	Last Year	Average i	SUB-WATERSHED	Averaged	Last Year	Average i
Phillips Lake Thief Valley	73.5 17.4	46.8 17.4	53.3 17.4		Burnt River Grande Ronde River	4	45	70
Unity	25.2	12.8	13.0	11.9	above La Grande	4	25	45
Wallowa Lake	37.5	14.6	20.8	22.4	Powder River Wallowa, Imnaha,	5	45	70
					Catherine Creek	6	55	80
		·						
					SOIL MOISTURE			
	-				RIVER BASIN	Number of Stations		'S MOISTURE CENT OF: Average i
					Burnt, Powder Grande Ronde, Catherine	2	103	87 .
					Crook Impoha Piyan	2	O.E.	0.0

⁽a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



WATER SUPPLY OUTLOOK UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS

OREGON

as of

MARCH 1, 1973

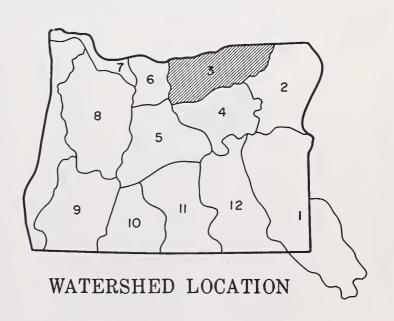
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GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK FOR USERS IN UMATILLA AND MORROW COUNTIES WILL BE BELOW AVERAGE THIS SPRING AND SUMMER. STREAMFLOW FORECASTS RANGE FROM 50 PERCENT OF AVERAGE ON THE UMATILLA RIVER NEAR GIBBON TO 80 PERCENT FOR THE SOUTH FORK OF THE WALLA WALLA RIVER. SNOW COVER VARIES FROM 44 PERCENT ON THE UMATILLA TO 52 PERCENT ON THE WALLA WALLA RIVER DRAINAGE. THE FEBRUARY RAINFALL WAS 65 PERCENT OF AVERAGE. SOILS ARE HOLDING NEAR AVERAGE AMOUNTS OF WATER. COLD SPRINGS AND McKAY RESERVOIRS ARE HOLDING BELOW AVERAGE AMOUNTS OF WATER AND IF THE PRESENT TREND CONTINUES THEY WILL NOT FILL THIS SEASON.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

	Flow P	erìod
STREAM or AREA	Spring Season	Late Season
		. "-
Walla Walla River, No. Fork	Fair	Fair
Walla Walla River, So. Fork	Fair	Fair
Walla Walla River, Main	Fair	Fair
Walla Walla River, Little	Fair	Fair
Couse Creek	Fair	Fair
Dry Creek	Fair	Fair
Pine Creek	Fair	Fair
Umatilla River, Main	Fair	Fair
Wildhorse Creek	Fair	Fair
Umatilla R. (Cold Springs	,	
Reservoir)	Average	Fair
Umatilla R. (McKay Res.)	Average	Fair
McKay Creek	Fair	Fair
Birch Creek	Fair	Fair
Butter Creek	Fair	Fair
Willow Creek	Fair	Fair
Rhea Creek	Fair	Fair
Rock Creek (John Day		
Tributary)	Fair	Fair
1110ucary)	1 411	rall



T.A. GEORGE AND H.M. VANCE

U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

TREAMFLOW FORECASTS	THIS YEAR			PAST RECORD		
	FORE	FORECAST	THOUSAND ACRE FE			
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average 1	
Birch Creek at Rieth	14	60	W 1 7 7			
bridi ofcok de Kiedi	10.8	60. 60	March-July		24	
Butter Creek near Pine City	7.4	60	April-Sept.		18.4	
McKay near Pilot Rock	16	. 60	March-July		12.4	
Note that the second se	17	60	April-July		27	
Umatilla near Gibbon	50	50	April-Sept.	°4-	28	
	40	50	March-Sept.		99	
Umatilla at Pendleton	135	65	April-Sept.	+	80	
· · · · · · · · · · · · · · · · · · ·	101	65	March-Sept.	2.	208	
Walla Walla, South Fork near Milton	63	80	April-Sept.		155	
warray octon fork nour refront	54	80	March-Sept.		79	
	34	80	April-Sept.		67	
·						

FORECAST DATE of LOW FLOW VALUES

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

TOREGRO! DATE OF EON TEON TALUES			KESEKYUIK STUKAGE (T	livu3ailu	AU. PL.	ENDOF	MONTH	
FORECAST POINT	Low Flow Value	Forecast Date Stream Will Secrete to Low of Low Flow		RESERVOIR	Usable	Usable Storage		
	Second/Ft.	Recede to Low Flow Value	Value		Capacity	This Year	Last Year	Average i
Umatilla at Pendleton	550	May 10	May 22	Cold Springs McKay	50.0 73.8	34.4 22.6	33.7 62.0	40.3 35.5
		·						÷ .
					-			, ¶,
						-		-

SOIL MOISTURE

SUMMARY of SNOW MEASUREMENTS

SUIL MUISTURE	(COMPARISON WITH PREVIOUS YEARS)						
RIVER BASIN	Number	of as PERCENT OF:		RIVER BASIN and/or	Number of Courses	WATER AS	AR'S SNOW PERCENT OF
	Stations	Last Year	Average i	SUB-WATERSHED	Averaged	Last Year	Average i
Umatilla, Walla Walla, McKay Creek	3	93	88	McKay Creek Umatilla River Walla Walla River	3 3 2	20 25 25	45 45 50

⁽a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



WATER SUPPLY OUTLOOK UPPER JOHN DAY WATERSHEDS OREGON

*as of*MARCH 1, 1973

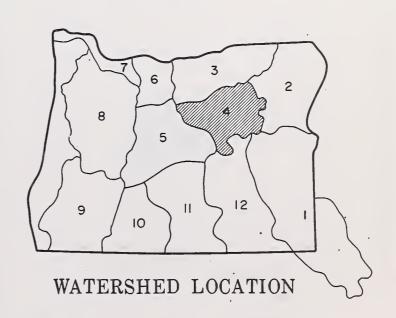
U.S.D.A. SOIL CONSERVATION SERVICE OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

GENERAL OUTLOOK

WATER SUPPLIES IN THE UPPER JOHN DAY RIVER BASIN WILL BE BELOW AVERAGE FOR THE 1973 SEASON. STREAMFLOW FORECASTS FOR THE APRIL-SEPTEMBER PERIOD RANGE FROM 70 PERCENT FOR THE MIDDLE FORK OF THE JOHN DAY AT RITTER TO 78% FOR STRAWBERRY CREEK AT PRAIRIE CITY. THE MOUNTAIN SNOWPACK IS 65 TO 80 PERCENT OF AVERAGE. FEBRUARY PRECIPITATION WAS 67 PERCENT OF AVERAGE. SOIL MOISTURE IS NEAR AVERAGE.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

	Flow P	eriod
STREAM or AREA	Spring Season	Late Season
Beech Creek	Average	Fair
Beech Creek-Fox-Long Cr.	Average	Fair
Bridge-Mountain Creeks	Average	Fair
Camas Creek	Average	Fair
Cherry Creek	Average	Fair
Indian-Pine Creeks	Average	Fair
John Day River, Main Fork	Average	Fair
John Day River, Mid. Fork	Average	Fair
John Day River, N. Fork	Average	Fair
John Day River. S. Fork	Average	Fair
Monument-Kimberly	Average	Fair
Strawberry Creek	Average	Fair
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T.A. GEORGE AND H.M. VANCE

U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 9720S

STREAMFLOW FORECASTS		THIS YEAR	,	PAST RECORD		
	FORE	CAST	FORECAST	THOUSAND A	CRE FEET	
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average i	
Camas Creek near Ukiah	34 27	70 70	March-July April-Sept.		4 8 39	
John Day at Prairie City	38	75 75	March-July April-Sept.		51 46	
John Day, Middle Fork at Ritter	96 81	71 70	March-July April-Sept.		135 116	
John Day, North Fork at Monument	468 414	69 71	March-July April-Sept.		682 583	
Strawberry near Prairie City	6.4 6.5	82 78	March-July April-Sept.		7.9 8.4	

SOIL MOISTURE

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN	Number of Stations		S MOISTURE CENT OF:	RIVER BASIN and/or	Number of Courses Averaged	THIS YE WATER AS	AR'S SNOW PERCENT OF
	. Stations	Last Year	Average i	and/or Courses SUB-WATERSHED Averaged		Last Year	Average i
John Day above Dayville John Day, North Fork	6 2	100 94	93 93	John Day, North Fork John Day abv. Dayville	7 5	40 50	65 80
			-				
	·		•	-			
		-					
-							
					-		

⁽a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



WATER SUPPLY OUTLOOK UPPER DESCHUTES, CROOKED WATERSHEDS OREGON

as of

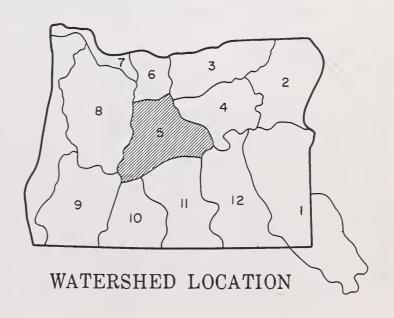
U. S. D. A. SOIL CONSERVATION SERVICE OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

GENERAL OUTLOOK

WATER SUPPLIES FOR CENTRAL OREGON WATER USERS WILL VARY FROM BELOW AVERAGE FOR THOSE DEPENDING ON DIRECT DIVERSION TO AVERAGE FOR IRRIGATION PROJECTS AND OTHER USERS WITH STORED WATER. THE MOUNTAIN SNOWPACK VARIES FROM 50 PERCENT OF AVERAGE ON THE TUMALO AND SQUAW CREEK DRAINAGES TO 70 PERCENT ON THE CROOKED-OCHOCO DRAINAGES. FEBRUARY PRECIPITATION WAS 46 PERCENT OF AVERAGE AND 83 PERCENT FOR THE NOVEMBER THRU FEBRUARY PERIOD. SOIL MOISTURE IS NEAR AVERAGE. RESERVOIR STORAGE IS ABOVE AVERAGE AND MOST SHOULD FILL.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

MAIER SUFFLI UUILUUR celle	nt With Respect	to Usual Supply.
	Flow P	eriod
STŘEÁM or AREA	Spring	Late Season
	Season	Season
Arnold Irrigation Dist. Bear Creek Beaver Creek Camp Creek Central Ore. Irrig. Dist. Crooked River Deschutes River Hay-Trout Creeks Lone Pine Irrig. Dist. Mill Creek North Unit Irrig. Dist. Ochoco Creek Sisters Irrigation Dist. Snow Creek Irrig. Dist. Squaw Creek Irrig. Dist. Swalley Ditch Tumalo Project Walker Basin Irrig. Dist.	Excellent Average Average Excellent Fair Average Fair Average Average Average Average Excellent Average Excellent Average Excellent Excellent	Average Fair Fair Average Fair Average Fair Average Fair Average Fair Fair Fair Fair Average Fair Average



T.A. GEORGE AND H.M. VANCE

U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205

STREAMFLOW FORECASTS		THIS YEA	R	PAST RECORD		
	FORE	ECAST	FORECAST	THOUSAND ACRE FEET		
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average i	
Beaver Creek near Paulina	23	72	March-July		33	
	14.4	72	April-Sept.		20	
Crane Prairie Reservoir Total Inflow d	97	77	April-Sept.		126	
Crescent at Crescent Lake	18	71	March-July		26	
	20	72	April-Sept.		28	
Crooked near Post above Prineville Reservoir	101	72	March-July		140	
J	73	73	April-Sept.		101	
Deschutes at Benham Falls ^d	339	86	April-July		393	
	533	89	April-Sept.		596	
Deschutes below Snow Creek	62	85	March-Sept.		73	
,	56	85	April-Sept.		66	
Deschutes, Little near La Pine d	62	64	March-July		98	
	58	61	April-Sept.		95	
Ochoco Reservoir Net Inflow	17	56	March-July		30	
	14	60	April-Sept.		23	
Odell near Crescent	24	80	April-Sept.		30	
Squaw near Sisters	41	80	April-Sept.		51	
Tumalo near Bend ^d	43	87				
ramato near bona	43	07	April-Sept.		49	

FORECAST DATE of LOW FLOW VALUES

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

			MESERTOIN STORAGE (nousunu	nu. : (.)	END OF I	ONTH	
FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value	RESERVOIR	Usable Capacity	This Year	sable Stora Last Year	ge Average i
Crane Prairie net Inflow Crooked R. near Post Deschutes at Bend Little Deschutes near La Pine *Forecast issued April 1.	300 100 1500 400 200	* May 22 * May 27 June 15	July 15 June 1 July 1 June 7 July 8	Crane Prairie Crescent Lake Ochoco Prineville Wickiup	55.3 86.9 47.5 153.0 200.0	54.0 85.2 27.3 112.5 187.1	55.8 76.2 31.0 100.8 192.2	46.6 49.2 27.5 97.4 178.3

SOIL MOISTURE

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

SOIL MOIOTORE			(COMPARISON WITH PREVIOUS YEARS)					
RIVER BASIN	Number of Stations	of as PERCENT OF: and/or		Number of Courses Averaged	THIS YEA WATER AS I Last Year	AR'S SNOW PERCENT OF Average i		
Crooked R., Upper Deschutes River	2	89	85	Crooked, Ochoco Deschutes abv. Wickiup Little Deschutes Tumalo & Squaw Crs.	4 3 4 3	40 35 40 30	70 55 55 50	

⁽a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



WATER SUPPLY OUTLOOK HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS

OREGON

as of MARCH 1, 1973

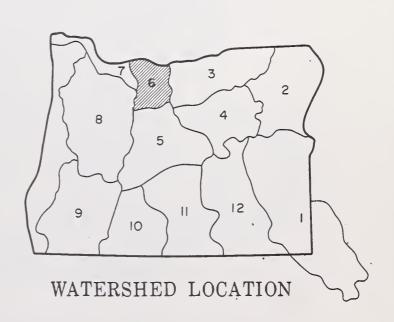
U. S. D. A. SOIL CONSERVATION SERVICE OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

GENERAL OUTLOOK

BELOW AVERAGE TO FAIR WATER SUPPLIES ARE FORECAST FOR USERS IN HOOD RIVER AND WASCO COUNTIES. STREAMFLOW FORECASTS FOR THE APRIL-SEPTEMBER PERIOD RANGE FROM 60 PERCENT ON THE WHITE RIVER TO 69 PERCENT ON THE HOOD RIVER. IF PRESENT CONDITIONS PERSIST SHORTAGES WILL OCCUR IN LATE SPRING AND SUMMER. THE MOUNTAIN SNOWPACK IS 40 PERCENT OF AVERAGE. PRECIPITATION DURING FEBRUARY WAS 24 PERCENT OF AVERAGE AND 68 PERCENT OF AVERAGE FOR THE NOVEMBER THRU FEBRUARY PERIOD. SOIL MOISTURE IS NEAR AVERAGE. CLEAR LAKE (WASCO) RESERVOIR HELD 7,300 ACRE FEET ON FEBRUARY 1.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

	Flow F	eriod
STREAM or AREA	Spring Season	Late Season
Aldridge Ditch (Tony Creek) Badger Creek Dee Irrigation Dist. East Fork Irrig. Dist. Farmers Irrigation Dist. Hood River Irrig. Dist. Juniper Flat Middle Fork Irrig. Dist. Mile Creeks Mill Creek Mount Hood Irrig. Dist. Rock-Gate-Threemile Crs. Tygh Creek White River		



FREAMFLOW FORECASTS		THIS YEAR	PAST RECORD		
	FORE	CAST `	FORECAST	THOUSAND A	CRE FEET
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average i
Hood River near Tucker Bridge	197	70	April-July		282
	232	69	April-Sept.		336
lood, West Fork near Dee	98	70	April-July		. 140
·	111	69	April-Sept		. 161
hite below Tygh Valley	71	56	April-July		128
	87	60	April-Sept.		144
					·

FORECAST DATE of LOW FLOW VALUES

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

				WESTWANIN SIONWAR (Housanu	NU. 11./	END OF	MONTH
FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value	RESERVOIR	Usable Capacity	This Year	sable Stora Last Year	ge Average i
Clear Branch Inflow *Average cfs forecast to flow for this two-week period. **Average cfs for period of record.		July 15-31	**39	Clear Lake (Wasco)	11.9	7.3	7.9	3.5
					-			

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

SOIL MOISTURE

RIVER BASIN and/or	Number of Courses	THIS YE.	AR'S SNOW PERCENT OF	RIVER BASIN	Number of	THIS YEAR'	S MOISTURE CENT OF:
SUB-WATERSHED	Averaged	Last Year	Average i		Stations	Last Year	Average
Hood River Mile Creeks White River	6 3 3.	25 35 25	45 60 45	Hood River, Mile Creeks	1	100	

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



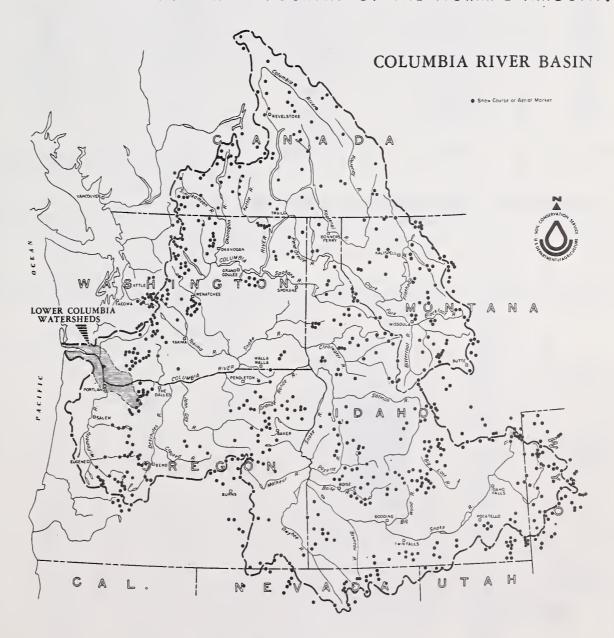
WATER SUPPLY OUTLOOK LOWER COLUMBIA WATERSHEDS OREGON

as ofMARCH 1, 1973

U.S.D.A. SOIL CONSERVATION SERVICE OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

GENERAL OUTLOOK

SNOW COVER IN THE COLUMBIA BASIN NOW RANGES FROM A LOW OF 15 PERCENT OF NORMAL ON THE PALOUSE RIVER IN EASTERN WASHINGTON-WESTERN IDAHO, TO A HIGH OF 109 PERCENT ON IDAHO'S BLACKFOOT RIVER. THE SNOWPACK GENERALLY RANGES BETWEEN ABOUT ONE-HALF TO SLIGHTLY OVER THREE-FOURTHS OF USUAL AMOUNTS. STORAGE IN IRRIGATION RESERVOIRS IS WELL ABOVE AVERAGE. FLOW OF THE COLUMBIA RIVER AT THE DALLES IS NOW EXPECTED TO BE ABOUT THREE-FOURTHS OF THE NORMAL AMOUNT.



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1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or	Number of Courses		AR'S SNOW PERCENT OF	
SUB-WATERSHED	Averaged	Last Year	Average[1	
Sandy River	2	25	45	

STREAMFLOW FORECASTS		THIS YEAR	PAST RECORD			
	FORE	CAST	FORECAST	THOUSAND ACRE FEET		
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average i	
Columbia at The Dalles d Sandy River near Marmot	57,000 78,500 251 289	70 75 70 70	April-June April-Sept. April-July April-Sept.	96,290 134,620	72,406 105,176 359 413	

HISTORICAL DATA (Columbia River at The Dalles)

		STREAMFLOW (1,000 A.F.	PEAK ^e		
YEAR	APR SEPT.	APR. — JUNE	MAY — JUNE	(1,000 c.f.s)	DATE
1953	100,600	64,900	55,800	609	June 17
1954	119,500	70,500	59,300	561 .	May 23
1955	99,500	58,300	50,300	545	June 26
1956	131,400	96,900	75,800	815	June 3
1957	105,700	80,500	67,200	700	May 22
1958	97,700	72,000	58,600	593	May 31
1959	112,500	71,900	58,900	555	June 23
1960	97,000	64,000	48,000	442	June 6
1961	101,400	74,400	64,000	699	June 8
1962	94,600	64,100	49,200	460	June 5
1963	87,000	56,300	46,200	437	June 18
1964	109,020	70,739	61,313	662	June 18
1965	114,137	80,024	62,477	520	June 9
1966	87,268	58,120	45,922	396	June 12
1967	107,771	72,408	65,112	622	June 10
953-67 Avg.	105,181	72,408	59,689	574	

LOWER COLUMBIA RIVER FLOOD STAGES (with 9.5' tide at Astoria)

				DRAINA	PHOUSE					
VANCOUVER	FLOW AT	SANDY	SAUVIE ISL.	SCAPPOOSE	DEER ISL.	RAINIER	BEAVER	WOODSON		
GAGE	THE DALLES	RIVER MILES								
(Weather Bu.)	(1,000 c.f.s)	118.9	96.0	91.0	77. 0	62.0	52.0	47. 0		
35 (1894)	1210	41.2	34.2	33.3	28.5	21.9	17.5	15.5		
34	1160	40.5	33.5	32.5	27.7	21.2	17.0	15.0		
33	1100	39.6	32.4	31.4	26.7	20.2	16.1	14.3		
32	1050	38.9	31.5	30.5	25.7	19.5	15.4	13.7		
31 (1948)	1000	38.0	30.7	29.5	25.1	18.8	14.7	13.0		
30	943	36.6	29.5	28.5	24.3	18.1	14.0	12.4		
29	897	35.5	28.5	27.7	23.7	17.5	13.4	11.8		
28	853	34.3	27.5	26.7	22.8	17.0	13.0	11.4		
27 (1956)	-811	33.0	26.5	25.6	21.8	16.2	12.5	11.0		
26 (1950)	771	32.1	25.5	24.6	20.9	15.5	12.2	10.7		
25	733	30.7	24.2	23.2	19.7	14.6	11.7	10.3		
24	697	29.7	23.0	22.2	19.0	14.1	11.4	10.2		
23	662	29.0	22.3	21.4	18.4	13.6	11.2	10.0		
22 ·	628	28.1	21.4	20.3	17.2	13.0	10.9	9.7		
21	595	27.2	20.7	19.5	16.4	12.6	10.6	9.6		
20 (1954)	564	26.2	19.8	18.6	15.5	12.1	10.2	9.4		
19	534	25.5	19.2	18.0	15.0	11.8	10.0	9.3		
18	501	24.4	18.3	17.2	14.3	11.4	9.8	9.1		
17	479	23.4	17.4	16.4	13.7	11.0	9.6	8.9		
16	452	22.4	16.5	15.5	13.0	10.5	9.3	8.7		
(a) 100	uming normal mataog							-7		

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records.



WATER SUPPLY OUTLOOK WILLAMETTE WATERSHEDS OREGON

as ofMARCH 1, 1973

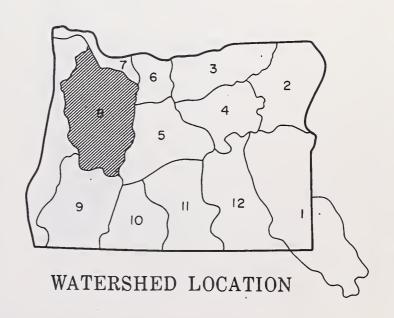
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GENERAL OUTLOOK

BELOW AVERAGE TO FAIR WATER SUPPLIES ARE FORECAST FOR STREAMS IN THE WILLAMETTE BASIN THIS SPRING AND SUMMER. STREAMFLOW FORECASTS VARY FROM 64 PERCENT ON THE SOUTH SANTIAM TO 80 PERCENT ON THE Mckenzie. The Mountain snowpack varies from 30 to 50 percent of average on the Middle fork of the Willamette. Rainfall during february was 28 percent and 74 percent for the november thru february period. The february flow of the middle fork of the Willamette below the north fork was 44 percent of average. Most of the multipurpose reservoirs on the Willamette are at low levels and if present conditions continue will not fill.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

	Flow P	eriod
STREAM or AREA	Spring Season	Late Season
Calapooya	Fair	Fair
Clackamas	Fair	Fair
McKenzie	Fair	Fair
Molalla	Fair	Fair
Santiam, North	Fair	Fair
Santiam, South	Fair	Fair
Willamette, Coast Fork	Fair	Fair
Willamette, Middle Fork	Fair	Fair
	•	



T.A. GEORGE AND H.M. VANCE

U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

1218 S.W. WASHINGTON ST. PORTLAND, OREGON 9720S

STREAMFLOW FORECASTS		THIS YEAR	R	PAST RECORD		
	FORE	ECAST	FORECAST	THOUSAND A	CRE FEET	
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average 1	
Clackamas at Estacada	480	70	April-July		689	
	550	69	April-Sept.		800	
Clackamas above Three Lynx	361	70	April-July		517	
	433	71	April-Sept.		610	
McKenzie at McKenzie Bridge	366	79	April-July		465	
	492	80	April-Sept.		614	
McKenzie near Vida	815	75	April-July		1087	
	1005	76	April-Sept.	•	1321	
McKenzie, South Fork near Rainbow	153	69	April-July		221	
	179	71	April-Sept.		252	
Oak Grove Fork above Power Intake	94	75	April-July		125	
	123	76	April-Sept.		163	
Row near Dorena	69	65	April-July		106	
d	73	66	April-Sept.		110	
Santiam, North at Mehama ^d	504	63	April-July		800	
·	576	64	April-Sept.		901	
Santiam, South at Waterloo	375	63	April-July		596	
d	405	64	April-Sept.		633	
Willamette, Mid. Fk. blw. N. Fk. nr. Oakridge ^d	471	65	April-July	890	725	
	554	67	April-Sept.	1011	828	
Willamette, No. Fk. of Mid. Fk. near Oakridge	128	65	April-July		198	
	166	67	April-Sept.	-	219	
Willamette at Salem ^d	2999	64	April-July		4696	
	3496	67 .	April-Sept.		5199	
	*					

SUMMARY of SNOW MEASUREMENTS

RESERVOIR	STORAGE (T	housand	Ac.	Ft.)	END OF MONTH
					babla Carrer

(COMPARISON WITH PREVIOUS YE	:ARS)			KEZEKANIK ZINKARE (1	iivusaiiu i	HU. 11./	END OF N	10N I H
RIVER BASIN and/or	Number of Courses		AR'S SNOW PERCENT OF	RESERVOIR	Usable		sable Stora	ige '
SUB-WATERSHED	Averaged	Last Year	Average i	RESERVOIR	Capacity	This Year	Last Year	Average i
Clackamas River McKenzie River Row River Santiam River Willamette, Mid. Fk.	2 3 2 4 5	15 20 20 15 30	30 40 40 30 50	Blue River Cottage Grove Cougar Detroit Dorena Fall Creek Fern Ridge Foster Green Peter Hills Creek Lookout Point Timothy Lake *Multiple purpose reservoirspace reserved primarily for flood runoff.	85.6* 30.0* 155.2* 299.9* 70.5* 115.0* 94.2* 30.0* 270.0* 200.0* 337.2* 61.7	22.1 7.7 25.7 56.1 16.3 23.8 32.0 4.3 63.2 45.2 31.0 50.2	53.2 11.6 73.2 178.6 33.8 57.6 50.8 8.3 168.6 0.0 167.6 58.0	9.3 94.9 21.1 33.4 63.3 116.9 47.8

⁽a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



WATER SUPPLY OUTLOOK ROGUE, UMPQUA, WATERSHEDS OREGON

as of

MARCH 1, 1973

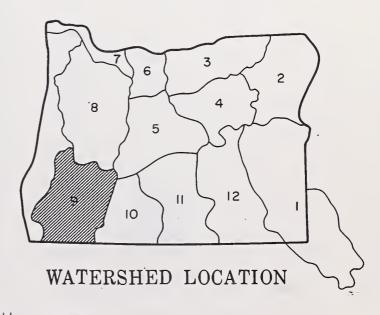
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GENERAL OUTLOOK

NEAR AVERAGE TO BELOW AVERAGE WATER SUPPLIES ARE IN PROSPECT FOR USERS IN THE ROGUE, UMPQUA DRAINAGES. STREAMFLOW FORECASTS FOR THE APRIL-SEPTEMBER PERIOD WILL VARY FROM 64 PERCENT ON THE APPLEGATE NEAR COPPER TO 100 PERCENT ON THE CLEARWATER ABOVE TRAP CREEK AND ABOUT 80 PERCENT ON THE ROGUE AND UMPQUA. STREAMS DRAINING THE SISKIYOUS AND LOWER ELEVATIONS WILL EXPERIENCE WATER SHORTAGES DURING THE LATE SPRING AND SUMMER IF PRESENT CONDITIONS CONTINUE. SNOW COVER VARIES FROM 50 PERCENT IN THE SISKIYOUS TO 70 PERCENT OF AVERAGE IN THE CASCADES. PRECIPITATION DURING FEBRUARY WAS 34 PERCENT OF AVERAGE AND FOR THE NOVEMBER THRU FEBRUARY PERIOD WAS 61 PERCENT. THE FEBRUARY FLOW OF THE UMPQUA NEAR ELKTON WAS 36 PERCENT AND THE ROGUE AT RAYGOLD 46 PERCENT OF AVERAGE.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

	Flow F	eriod
STREAM or AREA	Spring Season	Late Season
Althouse Creek	Average	Fair
Applegate River, Big	Average	Fair
Applegate River, Little	Average	Fair
Ashland Creek	Average	Fair
Butte Creek, Big	Average	Fair
Butte Creek, Little	Average	Fair
Cow Creek	Average	Fair
Deer Creek	Average	Fair
Elk Creek	Average	Fair
Emigrant Creek (abv. res.)	Average	Fair
Evans Creek	Average	Fair
Gold Hill Irrigation Dist.	Average	Average
Grants Pass Irrig. Dist.	Average	Average
Grave Creek	Average	Fair
Illinois River, East Fork	Average	Fair
Illinois River, West Fork	Average	Fair
Jump-off-Joe Creek	Average	Fair
Neil Creek	Average	Fair
Red Blanket Creek	Average	Fair
Rogue River	Average	Fair
Sucker Creek	Average	Fair
Table Rock Irrig. Dist.	Average	Fair
Thompson Creek	Average	Average
Wagner Creek	Average	Average
Williams Creek	Average	Fair
	,	



Report prepared by

T.A. GEORGE AND H.M. VANCE

U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

1218 S.W. WASHINGTON ST. PORTLAND, OREGON 97205

STREAMFLOW FORECASTS		THIS YEAR	PAST RECORD		
	FORE	CAST	FORECAST	THOUSAND	ACRE FEET
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average i
•					
Applegate near Copper	90	64	April-Sept.		140
Clearwater above Trap Creek ^a	73	100	April-Sept.		73
Fourmile Lake net Inflow d	3.6	90	April-Sept.		4.1
Hyatt Reservoir Net Inflow ^d	2.5	50	April-July		5.2
Illinois River near Kerby	153	. 75	April-July		205
	158	75	April-Sept.		211
· Little Butte, N. Fk. at Fish Lk. nr. Lake Cr.	10.0	70	April-Sept.		14.4
Little Butte, South Fork near Lake Creek	20	61	April-July	-	33
Rogue above Prospect	212	79	April-July		269
. 4	261	80	April-Sept.		326
Rogue, South Fork near Prospect ^d	52	84	April-July		62
	60	81	April-Sept.		74
Rogue at Raygold near Central Point	593	76	April-July	931	· 781
	719	76	April-Sept.	1132	941
Rogue at Grants Pass	765	81	April-Sept.		940
Umpqua, No. blw. Lemolo Res. nr Toketee Falls	135	77	April-Sept.		176
		*			

FORECAST DATE of LOW FLOW VALUES

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

					MEDERITOR DIGITALE (nouounu	AU. 11.7 END OF MONTH			
	EORECAST POINT	Low Flow	Forecast Date Stream Will	Average Date		Usable	Usable Storage			
	FORECAST POINT	Value Second/Ft.	Recede to Low Flow Value		RESERVOIR	Capacity	This Year	Last, Year	Average i	
	Little Butte Creek, South Fork Rogue at Raygold	100 1200 *1400 *1000	May 1 July 11 July 1 Aug. 15	May 27 Aug. 7	Emigrant Lake Fish Lake Fourmile Lake Howard Prairie Hyatt Prairie	39.0 8.0 16.1 60.0 16.1	26.1 7.8 11.2 42.9 9.4	8.1	28.3* 5.7 9.9 26.1 10.7	
	*Average daily cfs forecast to flow on this date.				*Average for years of record (in base period) after reconstruction.	-	-	-	.•	
					SUMMARY OF SNOW ME (COMPARISON WITH PREVIOUS RIVER BASIN and/or SUB-WATERSHED		er of ses		R'S SNOW ERCENT OF Average i	
					Applegate Bear Creek Butte Creek Illinois River North Umpqua Rogue River	3 2 4 3 3 6		50 60 45 50 35 45	57 60 75 50 50 70	

⁽a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



WATER SUPPLY OUTLOOK KLAMATH WATERSHEDS OREGON

as of

MARCH 1, 1973

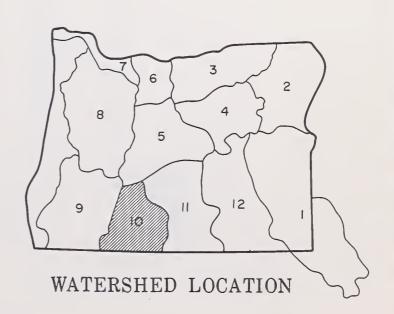
U.S.D.A. SOIL CONSERVATION SERVICE OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

GENERAL OUTLOOK

KLAMATH COUNTY WATER USERS DEPENDING ON DIRECT DIVERSIONS WILL HAVE BELOW AVERAGE TO FAIR WATER SUPPLIES THIS SPRING AND SUMMER, WITH SHORTAGES OCCURRING IN LATE SPRING AND SUMMER IF PRESENT CONDITIONS PERSIST. USERS WITH ACCESS TO STORED WATER WILL HAVE ADEQUATE SUPPLIES. THE MOUNTAIN SNOWPACK IS 55 TO 65 PERCENT OF AVERAGE. PRECIPITATION DURING THE NOVEMBER THRU FEBRUARY PERIOD IS 78 PERCENT OF NORMAL. THE UPPER KLAMATH NET INFLOW WAS 79 PERCENT OF AVERAGE DURING FEBRUARY. RESERVOIR STORAGE IS ABOVE AVERAGE AND MOST RESERVOIRS SHOULD FILL.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

Ft. Klamath Valley Lost River (Clear Lake) Lost River (Gerber) Lost River (Willow Res.) Sprague River Upper Klamath Lake Williamson River	Flow P	eriod
STREAM or AREA	Spring Season	Late Season
Lost River (Clear Lake) Lost River (Gerber) Lost River (Willow Res.) Sprague River Upper Klamath Lake	Fair Average Average Fair Average Fair	Fair Average Average Average Fair Fair



Report prepared by

T.A. GEORGE AND H.M. VANCE

U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205

STREAMFLOW FORECASTS		THIS YEAR	PAST RECORD THOUSAND ACRE FEET		
	FORE	FORECAST			
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	FORECAST PERIOD	Last Year	Average i
Clear Lake Reservoir Inflow ^k Gerber Reservoir Inflow ^k Sprague near Chiloquin Upper Klamath Lake net Inflow ^k Williamson below Sprague River	48 21 143 173 451 422 321 304	74 65 54 58 64 68 63 64	March-July March-July March-July April-Sept. March-July April-Sept. March-July April-Sept.	914 599	65 33 320 296 701 619 510 475

SOIL MOISTURE

. RIVER BASIN	Number of	THIS YEAR'S MOISTURE as PERCENT OF:			
	Stations	Last Year	Average i		
Upper Klamath	1	92	90		

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

WESTHAOM STOWAGE (1	ilouounu ,	10. 11.		1011111			
PECED/OID	Usable	Usable Storage					
RESERVOIR	Capacity	This Year	Last Year	Average i			
Clear Lake Gerber Upper Klamath Lake	440.2 94.0 584.0	310.4 59.4 443.7	336.6 85.4 472.4	227.3 48.6 ^m 421.5			

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YE	ARS)				
RIVER BASIN	Number of		AR'S SNOW		
and/or	Courses		PERCENT OF		
SUB-WATERSHED	Averaged	Last Year	Average i		
Lost River Sprague River Upper Klamath Williamson River	3	50	85		
	3	55	65		
	8	45	60		
	3	50	55		

⁽a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



WATER SUPPLY OUTLOOK LAKE COUNTY, GOOSE LAKE WATERSHEDS OREGON

as of

MARCH 1, 1973

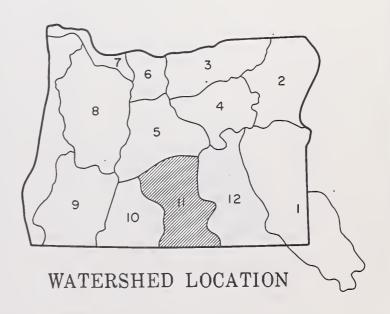
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GENERAL OUTLOOK

LAKE COUNTY WATER USERS WILL HAVE NEAR NORMAL WATER SUPPLIES DURING THE 1973 SEASON ON STREAMS HEADING IN THE WARNER MOUNTAINS. WATER SUPPLIES IN THE NORTH AND WEST PARTS OF THE COUNTY WILL BE BELOW AVERAGE. THOSE AREAS WILL EXPERIENCE LATE SPRING AND SUMMER SHORT-AGES IF THE PRESENT CONDITIONS PERSIST WHERE STORED WATER IS NOT AVAILABLE. SNOW COVER VARIES FROM 40 PERCENT ON SILVER CREEK TO 110 PERCENT ON TWENTYMILE CREEK. WINTER PRECIPITATION HAS BEEN 70 PERCENT OF AVERAGE. RESERVOIR STORAGE IS ABOVE AVERAGE. THE FEBRUARY FLOW OF THE CHEWAUCAN NEAR PAISLEY WAS 51 PERCENT OF AVERAGE.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

Flow Period					
Spring Season	Late Season				
Fair Fair Average Fair Average Average Average Fair Fair Average Fair Average Fair Average Average	Fair Average Fair Fair Average Fair Fair Fair Fair Fair Fair Average Average				
	Spring Season Fair Fair Average Fair Average Average Average Fair Fair Average Fair Average Fair Average				



T.A. GEORGE AND H.M. VANCE

U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

1218 S.W. WASHINGTON ST. PORTLAND, OREGON 97205

STREAMFLOW FORECASTS		THIS YEAR	PAST RECORD			
	FORE	CAST	FORECAST	THOUSAND ACRE FEET		
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feer	Percent of Average	PERIOD	Last Year	Average i	
Chewaucan near Paisley Deep above Adel Drews Reservoir net Inflow d Honey Creek near Plush Silver Creek near Silver Lake Twentymile near Adel	59 68 31 15.1 10.0 23	66 93 67 84 49 100	March-July March-July March-July March-July March-July March-July	117	89 73 46 18.0 21 23	

SOIL MOISTURE

SOIL MOISTURE	Number	THIS YEAR'	S MOISTURE	RESERVOIR STORAGE (
RIVER BASIN	of Stations	as PERO	ENT OF:	RESERVOIR	Usable Capacity		sable Stor	T
	Stations	Last Year	Average i			This Year	Last Year	Average
Chewaucan, Silver Creek, Drew Creek Honey, Deep, 20-Mi. Cr.	1 1	92 98	90 102	Cottonwood Drews *Average for years of record (in base period) after reconstruction.	8.7 63.0	2.1 41.1	2.7 50.3	3.2
		Э		SUMMARY of SNOW MI (COMPARISON WITH PREVIOU RIVER BASIN and/or SUB-WATERSHED Chewaucan River		er of ses aged La	THIS YEA	R'S SNOW ERCENT OF Average
				Deep Creek Drew Creek Honey Creek Silver Creek Twentymile Creek	3 3 3 3 3		45 60 50 30 60	85 90 85 40 110
		-						
		-						

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



WATER SUPPLY OUTLOOK HARNEY BASIN WATERSHEDS **OREGON**

as of

MARCH 1, 1973

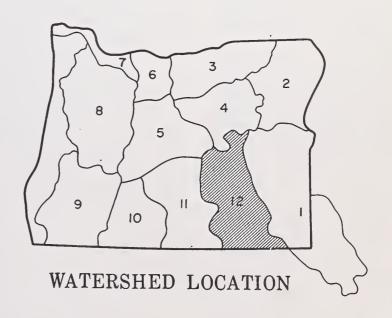
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GENERAL OUTLOOK

HARNEY COUNTY WATER USERS ON STREAMS DRAINING THE STEENS AND TROUT CREEK MOUNTAINS WILL HAVE AVERAGE TO ABOVE AVERAGE WATER SUPPLIES. THE REMAINDER OF THE COUNTY WILL HAVE BELOW AVERAGE SUPPLIES OF WATER. THE SNOWPACK VARIES FROM OVER 100 PERCENT IN THE STEENS AND TROUT CREEK MOUNTAINS TO 65 PERCENT ON THE SILVER CREEK DRAINAGE. PRECIPITATION DURING FEBRUARY WAS 45 PERCENT OF AVERAGE. SOIL MOIS-TURE IS SLIGHTLY BELOW AVERAGE AND SOME RUNOFF WATER WILL BE ABSORBED.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

	Flow P	eriod
STREAM or AREA	Spring Season	Late Season
Catlow Valley Cow Creek Donner und Blitzen River Mill-Coffeepot Creeks Rattlesnake Creek Silver Creek Silvies River Soldier-Prather Creek Trout Creek Whitehorse Creek	Average Fair Average Fair Fair Fair Fair Excellent Excellent	Fair Fair Fair Fair Fair Fair Average Average



U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

STREAMFLOW FORECASTS		THIS YEAR	PAST RECORD			
	FORE	CAST	FORECAST	THOUSAND ACRE FEET		
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average i	
Donner und Blitzen near Frenchglen Silver near Riley Silvies near Burns Trout near Denio	55 53 12.5 70 58 9.7 9.1	96 96 70 70 70 127 122	March-July April-Sept. April-July March-July April-Sept. March-July April-Sept.		57 55 17.9 101 83 7.7 7.5	

SOIL MOISTURE

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN	Number of	THIS YEAR'S as PERCE	MOISTURE ENT OF:	RIVER BASIN and/or	Number of Courses Averaged		AR'S SNOW PERCENT OF
	Stations	Last Year	Average i	SUB-WATERSHED	Averaged	Last Year	Average i
Silvies River, Silver Cr. Trout Cr., Donner und Blitzen River	3 2	96	94	Donner und Blitzen R. Silver Creek Silvies River Trout Creek	4 3 4 3	65 45 50 190	110 65 80 155
÷							

⁽a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

BASIC DATA SUPPLEMENT 1 MARCH 1, 1973

SNOW		IIS YE	////		REC.	SNOW		HIS YE		PAST R	
DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (In.)	Cont.	(inc	Content hes)	DRAINAGE BASIN and/or SNOW COURSE		Depth		Water Cor (inche:	
OWYHEE, MALHEL				Yr.	Ave	BURNT, POWDER, PI IMNAHA WA	NE, G	T RAN DI			AV
Antelope Ridge (Ida.) Battle Creek (Ida.) Beat Creek (Nev.) Big Bend (Nev.) Blue Mountain Springs Blue Mtn. Springs Pillow* Buckskin, Lower (Nev.) Buckskin, Upper (Nev.) Bull Basin (Ida.) Bully Creek Call Meadow Columbia Basin (Nev.) Cottonwood-Indian Crane Prairie Disaster Peak (Nev.) Eidorado Pass Fawn Creek (Nev.) Fish Creek Fish Creek Pillow* Fing Prairie Fox Creek (Nev.) Granite Peak (Nev.) Granite Peak (Nev.) Jack Creek, Lower (Nev.) Jack Creek, Lower (Nev.) Jack Creek, Upper (Nev.) Jack Creek (Nev.) Jack Peak (Nev.) Lagan Valley Lookout Butte Louse Canyon Martin Creek (Nev.) Merritt Mountain (Nev.) Midas (Nev.) Mids Flat (Ida.) Dregon Canyon Quinn Ridge (Nev.) Silver City (Ida.) Silvies Silvies Pillow* South Mountain #2 (Ida.) Stag Mountain (Nev.) Stag Mountain (Nev.) Triangle (Ida.) Taylor Canyon (Nev.) Tremewan Ranch (Nev.) Triangle (Ida.) Trout Creek Vught Ranch (Ida.) Trout Creek Vught Ranch (Ida.) War Eagle (Ida.) *Manometer Reading.	2/28 2/23 3/2 2/27 2/27 2/23 2/28 2/23 2/23 2/23 2/27 2/23 2/27 2/23 2/23	27 36 28 30 4 11 12 28 0 22 41 11 19 60 -1 23 17 46 14 18 26 21 17 21 34 31 28 28 29 21 21 31 31 32 32 33 34 36 37 37 37 37 37 37 37 37 37 37	3.6 16.8 6.6 11.2 9.8 1.6 7.6 9.2 1.1 3.4 7.6 0.0 6.0 12.5 3.8 7.2 4.1 15.9 3.9 4.7 7.4 5.8 0.0 2.2 9.3 1.8 4.7 10.4 6.0 10.4 10.7 10.4 10.4 10.4 10.4 10.4 10.4 10.4 10.4	3.2 9.6 31.3 33.1 2.8 12.7 10.3 9.7 15.8 8.0 11.1 13.6 12.5 11.2 0.0 1.1 10.9 14.9 6.3 9.3 4.2 0.0 12.6 7.2 9.0 25.6 18.9 28.6 19.1 10.5 T 13.6 11.1 13.6 13.6 14.9 15.8 16.3 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2	6.9 13.7 -2.3 6.7 7.2 1.1 ^m 2.7 ^m 3.5 -7 ^m 12.7 ^m 12.7 ^m 12.7 ^m 12.7 ^m 12.7 ^m 12.7 ^m 12.7 ^m 12.7 ^m 12.7 ^m 13.5 12.7 ^h 14.2 ^m 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10	Aneroid Lake #1 Aneroid Lake #2 Anthony Lake Bald Mountain (Ore.) Beaver Reservoir Beaver Reservoir (Alt.) Big Sheep Blue Mtn. Summit Bourne County Line Dooley Mountain Eilertson Meadows Eldorado Pass Gold Center Goodrich Lake Intake House Little Alps Little Antone Lucky Strike Lucky Strike Pillow* Meacham Mirror Lake Mirror Lake Moss Spring Power Plant Schneider Meadows Schoolmarm Standley Taylor Green Tipton Tipton Snow Pillow* Tollgate TV Ridge *Manometer reading. UMATILLA, WALLA WA LOWER JOHN DA Arbuckle Mountain Arbuckle Mtn. Pillow* Battle Mountain Summit Blue Mountain Camp Butte Creek Summit Emigrant Springs High Ridge Pillow* Lucky Strike Lucky Strike Lucky Strike Lucky Strike Lucky Strike Lucky Strike Veacham Tollgate Weston Mountain *Manometer Reading	2/28 2/28 2/27 2/26 2/27 2/26 2/27 2/26 2/27 2/22 2/27 2/23 2/27 2/23 2/28 2/27 2/27 2/26 2/27 2/26 2/27 2/26 2/27 2/26 2/27 2/26 2/27 2/26 2/27 2/26 2/27 2/26 2/27 2/27	70 63 48 45 21 24 58 22 36 8 24 25 11 32 65 27 27 15 26 - 14 132 43 13 81 7 68 37 28 35 34 WILL ERSH	21.8 15.5 13.5 5.1 5.8 19.1 5.3 9.9 2.2 7.1 6.4 3.8 25.4 7.0 3.9 7.5 6.8 3.6 46.2 12.8 3.5 22.4 10.6 7.4 8.3 12.0 10.2	20.0 27.6 21.4 19.3 1.8 3.2 15.3 1.5 57.5 2 14.4 23.0 11.0 22.5 16.1 13.2 18.8 32.5 6.0 35.3 2.2 22.0 13.6 38.2 22.0 13.6 38.2 22.0 13.6 38.2 22.0 13.6 38.2 22.0 13.6 38.2 22.0 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 6.8 22.5 1.3 22.5 22.5 1.3 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 2	26. 26. 27. 13. 10. 10. 10. 10. 10. 10. 10. 10

BASIC DATA SUPPLEMENT 1 MARCH 1, 1973

SNOW	TH	IIS YE	AR		REC.	SNOW	TI	HIS YE	EAR	PAS	
DRAINAGE BASIN and/or SNOW COURS	Date of Survey	Snow Depth (In.)	Water Cont. (In.)		Content hes)	DRAINAGE BASIN and/or SNOW COURS		Snow Depth (In.)	Cont.	Last	Cont hes)
UPPER JOHN D	TAW WAT	ERSH	EDS			HOOD, MILE CREEKS	, LOW	ER D		TES	1
Anthony Lake	2/28	48	15.5	34.5	22.2	WATE	RSHEDS	ı	1	1	1
Arbuckle Mountain	2/28	17	5.0	17.9	9.6	Brooks Meadows	2/22	13	3.5	16.9	9.
Arbuckle Mtn. Pillow* Battle Mountain Summit	2/28 2/26	0	0.0	31.4	$ $ $ 1.8^m$	Clear Lake	2/23 2/23	7 20		16.1	
Beech Creek Summit	2/28	10	3.7	8.1	4.4	Clear Lake (Experimental) Cooper Spur #2	3/2	16		22.8	
Blue Mountain Springs	2/27	36	11.2	20.8	13.7	Greenpoint	2/28	18	5.9	15.7	12
Blue Mtn. Springs Pillow*	2/27 2/26	23		16.3		Knebal Springs	2/22	10		10.8	6
Blue Mountain Summit Butte Creek Summit	c 2/ 20	23	3.3	11.4	7.2	Parkdale Phlox Point	3/2 2/26	58	0.0	93.5	10
Oerr	2/23			15.4	8.3h	Red Hill	2/26	42			31
Gold Center	2/22	32		15.3	11.1	Still Creek	2/23	24	7.7	35.4	18
Indian Creek Butte ^e Izee Summit	2/23 2/26	60	5.6	31.9	19.3 ^m	Still Cr. Alt. #2 Switchback	2/23 2/26	27		36.5 15.6	111
ucky Strike	2/27	26		22.5	10.7h	Tilly Jane	2/24	1		58.1	
Lucky Strike Pillow*	2/27	-	6.8	13.2		Ulrich Ranch Junction	2/22	9	3.4	2.0	2
Marks Creek	2/27	0	0.0	4.5	2.9	Umbrella Falls	3/1			101.2	1
Ochoco Meadows Olive Lake ^e	2/28 2/27	19	5.6	12.1	8.1	Upper Valley	3/2	0	0.0	1.0	-
Schoolmarm	2/27	7	2.0	6.0	4.6						
Snow Mountain	2/27	34		19.2	11.0 h		1 .				
Snow Mtn. Pillow**	3/1 2/28	10	7.9	15.7	4.9	WILLAMETTE	WATER	SHED	S		
Starr Ridge Tipton	2/26	28		13.6	8.9	Cascade Summit	2/28	39	13.7	39.4	124
Γipton Snow Pillow*	2/26	-	8.3			Champion	2/27	29	11.0	40.6	21
Williams Ranch	2/28	0	0.0	3.0	1.3		2/26	9		17.4	
*Manometer reading.						Clear Lake Clear Lake (Expt.)	2/23 2/23	7 20		16.1 22.8	8
**Telemetry reading.						Dead Horse Grade	2/27	14		24.5	
						Detroit (Town)	3/1	0	0.0	2.3	0
						Detroit Dam	3/1	0	0.0	T	
UPPER DESCHUTES,	CROOK	FD W	I ΔTFRSI	 HEDS		Golden Curry Creek Hogg Pass	2/27 3/1		13.0	9.6	33
of the blochotto,	1	1				Lake Harriet	3/1	0	0.0		1
Bald Peter	3/1		14.6			Laurel Mountain	2/28	0		14.2	-
Caldwell Ranch Cascade Summit	3/1 2/28	16 39			11.5 h 24.0	Layng Creek Lookout Point Dam	2/27 2/28	0	0.0	0.0	0
Chemult	2/27	20	6.4	10.6	9.7	Lost Creek Ranch	2/27	0	0.0	6.4	3
Chemult Alternate	2/27	24	7.6			Lund Park	2/27	0	0.0	0.0	0
Derr	2/23	24		15.4		Marion Forks	3/1	7		17.5	11
Hogg Pass Hungry Flat	3/1 2/27	40	0.0		33.1	Marys Peak Marys Peak (Alt.)	2/27	2 1		22.9	9
Irish-Taylor Pillow**	b		""	61.3		McCredie Springs	2/28	0	0.0	0.0	0
Marks Creek	2/27	0	0.0			McKenzie	2/27	1		71.8	
New Crescent Lake	2/27 2/27	19		15.4 75.1		McKenzie Bridge	2/27 3/1	0	0.0	0.0	0 0
New Dutchman Flat #2 Ochoco Meadows	2/28	19		12.1		Mill City Oakridge	2/28	0	0.0	0.0	١
Racing Creek	3/1	20	5.1		1	Peavine Ridge Pillow**	3/1	-	4.6	29.7	-
Snow Mountain	2/27	34			11.0 ^h	Phlox Point	2/26			93.5	
Snow Mountain Pillow** Tamarack	3/1 2/26	11	7.9	15.7	4.8	Railroad Overpass Saddle Mountain Pillow**	2/28 b	0	0.0	0.0	2
Tangent	2/27				19.8	Salt Creek Falls	2/28	10	3.7	21.5	1
Three Creek Butte	2/26	12	4.2	15.6	9.4 ^h	Santiam Junction	3/1	18	5.8	38.9	19
Three Creek Meadow	2/26	22			16.0	Seine Creek Pillow**	b	24	7 7	2.2	1 0
Three Creek Mdw. Pillow** Waldo Lake	3/1 3/1	39	14.1	25.0 47.6	$ _{25.5}^{h}$	Still Creek Still Creek Alt. #2	2/23	24 27		35.4 36.5	10
Willamette Pass	2/28	0	0.0	53.8	33.7 h	Timothy Lake	3/1	14	4.1	22.4	
Willamette Pass Pillow**	Ь					Valsetz Summit	2/28	0	0.0	0.0	-
**Tolomot me modding						Vida Waldo Lake	2/27 3/1	0 39	0.0 14.1	0.0	25
**Telemetry reading.						Weaver Creek	2/27	0	0.0	T	0
						White Branch Slide	2/27	0	0.0	10.6	5
						Whitewater Bridge	3/1	0	0.0	7.8	3
						Willamette Pass Willamette Pass Pillow**	2/28 b	56	20.1	53.8	35
						TITAMOCCE 1 as 11110w					
						**Telemetry reading.					

BASIC DATA SUPPLEMENT 1

MARCH 1, 1973

SNOW	TH	IIS YE	AR	PAS	T REC.	SNOW	TI	HIS YE	EAR	PAST	F REC.
DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (In.)	1	(inc	Content thes)	DRAINAGE BASIN and/or SNOW COURSE		Snow Depth	Cont.		Content hes)
ROGUE . UMPOU	A WATE]	Yr.		KI,AMATH W.				Yr.	
ROGUE, UMPQUA Althouse Althouse #2 Annie Spring Beaver Dam Creek Big Red Mountain Billie Creek Divide Caliban Champion Cold Springs Camp C	A WATE 2/27 2/27 2/26 2/27 2/22 2/28 2/27 2/22 3/1 2/27 2/23 2/23 2/23 2/23 2/27 2/27 2/27	13 12 85 22 54 40 66 29 61 	5.7 5.0 30.2 8.5 18.5 13.6 20.8 11.0 21.2 19.4 6.2 18.6 17.0 10.2 9.1 19.0	8.7 45.3 21.0 31.5 30.6 41.2 40.6 41.0 34.5 11.3 48.3 42.7 23.5 16.6 29.8	6.0 36.3 9.6 26.6 18.4 21.9 27.5h 18.5 h 30.5 h 20.6 m 24.9 8.4 h 7.4 h 1	Diamond-Crater Sum. Alt. Diamond Lake Jct. (97) Dog Hollow e Finley Corrals e Fort Klamath (PP&L) Fourmile Lake	2/26 2/27 2/27 b 2/22 3/1 2/23 2/23 2/23 2/23 2/23 2/23	83 40 20 24 61 - 18 4 56 51 12 0 42	13.6 6.4 7.6 21.2 19.4 5.4 1.2 18.6 17.0 3.8 0.0 12.6 19.0 T 2.8 3.9	34.5 13.3 2.1 6.0 48.3 42.7 5.0 0.0 25.2 0.0 29.8 8.5 5.4 13.4 66.9 7.5 7.9	18.4 9.7 - 0.5 27.5 - 7.7 2.0 7.6 30.5 - 2.0 0.4 12.6 3.1 20.6 1.8 2.7 7.4 5.5 10.7 47.5 5.8
Little Red Mountain Mt. Ashland Switchback Mule Creek North Umpqua Page Mountain Park Headquarters Red Butte #1 Red Butte #2 Red Butte #3 Red Butte #4 Red Butte #5 Red Butte #5 Red Butte #6 Seven Lakes #2 Seven Mile Silver Burn Siskiyou Summit	2/22 2/28 2/27 3/2 2/27 2/26 2/26 2/26 2/26 2/26 2/26 2/27 2/28 2/26 2/23	34 68 0 15 0 100 11 5 0 0 0 67 62 13 T	11.8 21.3 0.0 5.0 0.0 37.0 3.7 1.9 0.0 0.0 0.0 24.4 21.4 5.5	29.9 34.7 13.5 20.5 2.4 66.9 18.5 8.2 3.5 0.0 0.0 57.3 38.0 16.8 5.2	21.6 12.0 h 4.3 h 47.5 10.8 h 7.2 h 2.4 h T m 0.0 32.1 h 11.3 5.7	Seven Lakes #2 Seven Mile State Line (Calif.) Strawberry Strawberry Summer Rim Summer Rim Summer Rim Summer Rim Pillow* Sycan Flat Taylor Butte LAKE COUNTY, GOOST Adin Mountain (Calif.) Bald Mountain (Nev.)	2/27 2/28 2/23 3/5 2/23 3/5 2/23 2/26 E LAKE	67 62 22 23 15 36 34 - 8 8	24.4 21.4 6.6 6.8 4.5 10.1 10.2 8.9 2.2 2.4	57.3 38.0 11.2 11.7 9.1 17.8 18.3 11.9 4.9	32.1h 7.5 6.6 13.8 5.9 5.9 9.5 3.1
Siskiyou Summit Alt. #2 Ski Bowl Road South Fork Canal Trap Creek Whaleback	2/23 2/28 2/26 3/2 2/28	50 0 12	0.0	27.8 1.5 15.4		Bear Flat Meadow e Camas Creek Cedar Pass (Calif.) Colvin Creek e Cox Flat e Crowder Flat e (Calif.) Dismal Swamp (Calif.) Finley Corrals e Hart Mountain e Little Bally Mtn. (Nev.) North Star (Calif.) Patton Meadows e Quartz Mountain Quartz Mountain Quartz Mountain (Ext.) Sherman Valley e Silver Creek State Line e (Calif.) Strawberry Strawberry Summer Rim	2/23 2/28 2/23 2/23 2/23 2/23 2/23 2/23	24 39 8 22 4 52 42 6 12 12 28 3 22 23 15	6.8 11.7 2.4 6.6 1.2 15.6 12.6 1.7 3.6 13.8 4.4 4.4 8.4 0.9 6.6 6.8 4.5 10.1	14.0 2.1 21.7 25.2 1.7 3.5 25.2 7.5 7.9 19.6	9.5 12.3 6.5 12.6 13.4 12.6 15.8 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.
*Manometer reading. **Telemetry reading.						Summer Rim Pillow* Summer Rim ^e Sycan Flat ^e Willow Creek ^e	3/5 2/23 2/23 2/23	8	2.2	18.3 11.9 8.4	

BASIC DATA SUPPLEMENT 1 MARCH 1, 1973

SNOW	TH	IIS YE	AR		REC.	SNOW	(TI	IS YE	AR	PAST	REC
DRAINAGE BASIN and/or SNOW COURSE	Date	Snow Depth	Water Cont		Content hes)	DRAINAGE BASIN and/or SNOW COURSE	Date	Snow	Water Cont.	Water (Conte
KAINAGE BASIN and of SNOW COURSE	Survey		(ln.)	Last Yr.	Ave	DRAINAGE BASIN and/or SNOW COURSE	Survey	(In.)	(ln.)	Last Yr.	Ave
			Γ								
HARNEY BASIN	WATE	RSHE	DS.	,							
	2/27	36		20.8	13.7						
	2/27	-		16.3							
	2/23	6	1.6	0.0	2.3 m 0.2 m						
	2/23 2/23	12	0.0	2.1	3.5						
Delintment Lake	2/27	20		11.0	6.5						
	2/23	. 3	0.8		0.5						
Disaster Peak (Nev.)	2/26				12.6						
	2/28	3	1.1	3.5	4.1^h						
	2/23				19.6^{h}						
	2/23 2/23	60	23.5	1.7	1.6						
	2/28	8	2.0	8.2	4.6						
	2/28	4	1.3	6.4							
Izee Summit	2/26		5.6	9.9	7.2						
	2/27			13.6	9.2			,			
· · · · · · · · · · · · · · · · · · ·	2/23		7.5		5.2^h						
	2/26 2/23	17 28	4.3		$ 4.8 $ $ 10.7^{h}$						
	2/23			28.6							
	2/23		6.9	12.6	7.8						
	2/27	34	9.5	19.2	11.0^{h}						
	3/1	-		15.7							
	2/28		2.8		$\begin{bmatrix} 4.9 \\ 2.7^{h} \end{bmatrix}$						
	2/26 2/23	34	2.2	5.6	6.3^m						
	2/23	21		11.5	3.6						
V Bake	-, -0										

*Manometer reading. **Telemetry reading.											
referencely reading.											
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	-										
(a) Assuming normal	meteo	rologi	cal co-	ditions	(h) N	' To report. (c) Not scheduled. (d) Corr	ected .	natu	ral		
flow. (e) Aerial sn	ow dep	oth ga	ge, wa	ter cont	ent esti	mated. (f) Nearest current data. (g) 1	Partly e	stimat	ed.		
(h) 1953-67 adjusted	d avera	ige. (i) 195.	3-67, 1	5 year	iverage. (j) Telephonic report – data n	ot conf	irmed.			
(k) Data from PP&L	Co. or	USBE	(recor	ds. (m)	Avera	ge or 5 or more years in base period.					
				1		1	1	1 1			

BASIC DATA SUPPLEMENT 2 MARCH 1, 1973

SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity	Survey	This Year	Last Year	Averag
	OWYHEE, MAI	HEID WAT	EBSHEDS				
O and Olive	1		1	7/0	10.4	11.0	
Bear Creek (Nev.)	7800 6700	72	16.8	3/2	10.4	11.0	10.6
Big Bend (Nev.)		48	16.7	2/27	12.9	13.9	15.4
Slue Mountain Spring	5900	42	16.9	2/27	6.4	6.5	10.1
rane Prairie	5375	48	18.2	2/27	14.8	15.2	15.9
olly Farm	4450	30	12.5	6			
ack Creek, Lower (Nev.)	6800	48	8.6	ь			1
ordan Valley	4390	48	19.3	2/26	15.4	16.6	15.
ud Flat (Ida.)	5500	48	12.8	2/28	11.0	14.0	11.4
odeo Flat (Nev.)	6800	42	11.0	2/26	9.0	6.1	10.0
aylor Canyon (Nev.)	6200	48	15.1	2/23	9.5	8.7	13.0
riangle (Ida.)	5150	48	16.6	ь			
	DER, PINE, GRA		1		1		
Blue Mountain Summit	5100	36	16.8	2/26	9.3	9.6	10.8
ooley Mountain	5430	36	9.2	2/22	3.5	2.8	3.9
migrant Springs	3925	48	22.3	2/26	18.9	19.5	19.4
add Summit	3730	48	18.9	2/28	10.4	11.2	10.5
loss Springs	5850	36	25.8	2/26	14.2	14.2	
ollgate Collinate	5070	48	23.6	2/27	14.3	16.1	20.
UMATILLA, WALLA	1				1		
attle Mountain Summit	4340	48	13.8	2/26	12.8	13.8	13.0
migrant Springs	3925	48	22.3	2/26	18.9	19.5	19.4
ollgate	5070	48	23.6	2/27	14.3	16.1	20.1
	UPPER JOHN	DAY WATE	RSHEDS				
Sattle Mountain Summit	4340	48	13.8	2/26	12.8	13.8	13.0
eech Creek	4800	48	21.3	2/28	15.1	11.6	13.5
lue Mountain Spring	5900	42	16.9	2/27	6.4	6.5	10.1
lue Mountain Summit	5100	36	16.8		9.3	9.6	10.5
	5670			2/26			
err		24	9.0	2/23	6.6	8.3	8.2
arks Creek	4540	36	14.1	b	10.1	13.4	11.3
now Mountain	6300	48	16.7	2/28	12.1	12.7	13.8
tarr Ridge	5150	36	10.6	2/28	9.3	10.6	9.6
illiams Ranch	4500	42	17.9	2/28	17.6	17.9	17.1
गा	PER DESCHUTES	, CROOKED	WATERSHE	os I			
err	5670	24	9.0	2/23	6.6	8.3	8.2
err Marks Creek	4540	36	14.1	b 2/23	0.0	13.4	11.3
now Mountain	6300	30 48	16.7	2/28	12.1	12.7	13.8
now Mountain	0300	40	10.7	2/20	12.1	14.7	13,0
HOOD. M	ILE CREEKS, L	OWER DESC	HUTES WATE	ERSHEDS			
	3490	72	26.4	2/23	14.2	14.2	
Conor Chur	3490	12	20.4	2/23	14.2	14.2	
ooper Spur							
cooper Spur	KLAMATH	I WATERSHE	EDS				
		1		2/28	7.6	Q 7	Q A
Cooper Spur Quartz Mountain	KLAMATH 5230	H WATERSHE	EDS 15.3	2/28	7.6	8.3	8.4

BASIC DATA SUPPLEMENT 2

MARCH 1, 1973

COU MOICTHDE

DRAIŅAGE BASIN and/or			e (Inches)	Date of		Moisture (In			
Name	Elevation	Depth	Capacity	Survey	This Year	Last Year	Average		
	LAKE COUNTY, GO		1	S					
Camas Creek Quartz Mountain	5720 5230	42 48	14.5 15.3	2/28 2/28	12.6 7.6	12.8 8.3	12.4		
Quartz Mountain	3230	40	13.3	2/20	/.0	0.5	0.4		
	HARNEY BA	SIN WATER	SHEDS						
Blue Mountain Spring	5900	42	16.9	2/27	6.4	6.5	10.1		
Fish Creek Folly Farm Silvies	7900 4450	48 30	15.0 12.5	2/23 b	13.1		10.1		
Silvies Snow Mountain	6900 6300	48 48	16.4 16.7	2/23 2/18	16.0 12.1	13.7 12.7	12.9		
Starr Ridge	5150	36	10.6	2/28	9.3	10.6	9.6		
Willow-Bald	5000	24	6.6	2/28	5.5	4.7	5.2		
				- 1					

⁽a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report — data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

BASIC DATA SUPPLEMENT 3

MARCH 1, 1973

5320 4530 5400 4520 5825 4800	Date of Reading 1/31 to 2/27/73 1/30 to 2/27/73 1/31 to 2/28/73 9/22/72 to 2/22/73 1/31 to 2/28/73	Precipitation 1.50 3.37 2.13	Last Year	Average
4530 5400 4520 5825	2/27/73 1/30 to 2/27/73 1/31 to 2/28/73 9/22/72 to 2/22/73 1/31 to	3.37 2.13		
5400 4520 5825	1/30 to 2/27/73 1/31 to 2/28/73 9/22/72 to 2/22/73 1/31 to	3.37 2.13		
4520 5825	1/31 to 2/28/73 9/22/72 to 2/22/73 1/31 to	2.13		
5825	9/22/72 to 2/22/73 1/31 to			
	1/31 to	10 17		
4800	1 2/20/77 1	19.13		
	2/28/73 1/31 to	2.50	3.40	
5800	2/27/73 1/31 to	0.23	1.30	
4865	1/29 to			
5050	2/22/73 1/30 to	0.12		
6300	2/27/73 1/30 to	2.20		
4900	2/28/73 1/29 to	2.00	3.34	
5760	2/27/73	1.02	4.22	
	2/28/73	2.20		
	to 2/27	4.72		
	2/26/73	0.25	1.69	
	_			
			1	
	4865 5050 6300 4900 5760 5040 5100	5800	1/31 to 2/23/73 1.00 1/30 to 2/27/73 2.20 1/30 to 2/28/73 2.00 1/29 to 2/27/73 1.02 1/27/73 to 2/28/73 2.20 1/27/73 to 2/28/73 2.20 1/27/72 to 2/27 4.72 1/30/73 to 2/26/73 0.25 1/30/73 to 2/26/73 1/	5800

⁽a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



EXET THE SEE OF THE SE	NUMBER NAME LOCATION ELEV SEC TWP BGE	NUMBER NAME LOCATION ELEV	NUEABER NAME		
OWYHEE, MALHEUR WATERSHEDS (1) 16H3AP Midas (Nev) 18 39N 46E 7200 16G7MP Mud Flat (Ida) 34 9S 2W 5500 1765A Oregon Canyon 8 40S 40E 6950 17H6a Quinn Ridge (Nev) 9 47N 41E 6300	18E20	18E23 Little Alps 10 75 37E 6200	THE CIECK	NUMBER NAME LOCATION NOT ELEV	NUMBER NAME LOCATION ELEV
1636 Antelope Ridge (1da) 10 115 1E 5700 15H6MP Rodeo Flat (Nev) 36 43N 53E 6800 15H6MP Rodeo Flat (Nev) 36 43N 53E 6800 15H6MP Rodeo Flat (Nev) 36 43N 58E 7100 15H6MP Rodeo Flat (Nev) 6 44N 58E 7100 15H6MP RODEO	18F1 Rock Spring 23 185 32F 5100	1707P Taylor Green 33 75 38E 3990 Pine Creek	1902P Arbuckle Mountain 33 4S 29E 5400 18ElP Anthony Lake 18 7S 37E 7125	21E4 Marion Forks 29 11S 7E 2600 22E3 Mill City 29 9S 3E 826 21E5 Santiam Junction 14 13S 7E 3750	2166a Dog Hollow 1 40S 14E 4900 20G14a Finley Corrals 11 36S 16E 6000 22G12 Fourmile Lake 9 36S 5E 6000 21G4P Gerher 12 30S 13E 4950 13E 49
18892 Settle Creek (Nev) 31 46n 36E 6700 16F3AP* Silver City (1da) 6 55 31W 6400 16F3A	34 21S 34E 4800	1708 Schneider Meadows 35 6S 45E 5400	UPPER JOHN DAY WATERSHEDS 141 Upper John Doy River	21E3 Whitewater Bridge 20 10S 7E 2175 McKenzie River	22G26 Howard Prairie 32 38S 4E 4500 22G16 Hyatt Prairie Reservoir 15 .39S 3E 4900
Suckskin, Lower (Nev) 1 45N 39E 7200 15H19a Stag Mountain (Nev) 32 41N 58E 7800 16F6a Succor Creek (Ida) 25 35 5M 6100 77H	8URNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS (2)	Gronde Ronde River 1701 Aneroid Lake No. 1 16 45 458 7480 1702P Aneroid Lake No. 2 16 45 755 7700	1902P Arbuckle Mountain 33 45 29£ 5400	21E8	22615
18610a Bull Basin (Nev) 31 447N 34E 6500 16H7a Toe Jam (Nev) 29 40N 50E 7700 16H7a Toe Jam (Nev) 29 40N 50E 7700 16H7a Toe Jam (Nev) 9 39N 55E 5700 16H7a Tremewan Ranch (Nev) 9 39N 55E 5700 16H7a Tremewan Ranch (Nev) 9 39N 55E 5700 16H7a Triangle (Ida) 25 75 3W 5150 16H7a Toe Jam (Nev) 9 39N 55E 5700 16H7a Toe Jam (Nev) 29 40N 50E 7700 16H7a Toe Jam (Nev) 9 39N 55E 5700 16H7a Toe Jam (Nev	Burnt River	18E1P Anthony Lake 18 75 37E 7125 17010a 8ald Mountain 14 & 15 45 41E 6700	18E16MP Blue Mountain Springs 21 15S 35E 5900	22E5 McKenzie Bridge 13 165 5E 1372 22E6 Vida 28 165 2E 800	22G33 Seven Mile 20 33S 6E 572S 20Hla State Line (Cal) 21 48N 11E 5750 20G9AP Strawberry 4 40S 16E 5760
185MP4 Fish Creek	17EIMP	1808P	18E27a East Fork Canyon 15 155 32E 5570 18E8 Gold Center 21 98 365 5340	Middle Fork Willamette River	20G2AP Summer Rim 23 33S 16E 7100 20G13a Sycan Flat 25 31S 14E 5500 21G3P Taylor Butte 21 33S 11E 5100
Fry Canyon	18E9P Tipton 21 9S 36E 5340 34 10S 35E 5100 Powder River	17013a Mirror Lake 34 45 445 8200 1706M Moss Spring 28 35 41 5860	196294 Indian Cr. Butte 5 155 33E 6550 1969P Izee Summit 28 165 29E 5293 1806P Lucky Strike 28 35 32E 5050	22F3 Cascade Summit 7 23S 6E 4880 22FB Lookout Point Oam 13 19S 1W 750 22F6 McCredie Springs 36 21S 4E 2120	Pacific Power and Light Company's Snow Station
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Jack Peak 10847 2 30S 46E 4390 18F6a 8uck Pasture 28 29S 35E 5300 18F7a 7637 Jordan Valley 20 45N 53E 6700 18E2la 8ully Creek 11 17S 37E 5300 18F3a Call Meadows 29 20S 33E 5340 18F5a Call Meadows 29 20S 33E 5340 18F5a 10xbut Sutte 27 40S 44E 6440 17F2a Cottonwood-Indian 3 19S 39E 4320 18F6a 8uck Pasture 28 29S 35E 5300 18F7a 29 20S 37E 5300 29 20S 37E 37	18E3 Eilertson Meadows 18 85 38E 5400 18E8 Gold Center 21 3 36E 5400	17016a TV Ridge No. 2 12 25 43E 7000	19F1M* Snow Mountain 1 195 26E 6220 19E7M Starr Ridge 20 15S 31E 5150	22F14* Willamette Pass 33 24S 6E 5600 Coost Fork Willamette River	6 Kirk (PP&L) 3 36S 6E 4200 6 Kirk (PP&L) 1 33S 7E 4533
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		UMATILLA, WALIA WILLOW ROCK	Upper Deschutes River	22F13	LAKE COUNTY, GOOSE LAKE WATERSHEDS 111- Goose Lake
24 23 22 21 20 19	18 17 16	LOWER JOHN DAY WATERSHEDS (3)	22F3 Cascade Summit 7 23S 6E 4880 21F11 Chemult 21 27S 8E 4760	Mory's River 23E1 Mary's Peak 21 125 7W 3620	20G15a Bear Flat Meadow 27 36S 19E 5900 20G8MP Camas Creek 5 39S 21E 5720 20G11A Cox Flat 16 37S 18E 5750
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Lake County			2106P 8rooks Meadows 2 25 10E 4300 21020 Knebal Springs 31 15 11E 3850	22G1 Whaleback 4 31S 2E 5025 Umpquo River	19H4a Little Bally Mt. (Nev) 8 45N 19E 6600 HARNEY BASIN WATERSHED (12)
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Idaho Cooperative Snow Surveys Nevada Cooperative Snow Surveys

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Oregon State Engineer and Corps of State Watermasters

Oregon State Highway Engineers

Soil and Water Conservation Districts of Oregon

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